STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

DEPARTMENT OF TRANSPORTATION
ENGINEERING SERVICE CENTER
Transportation Laboratory
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Sacramento, California 95819-4612

GEOTECHNICAL DESIGN REPORTS AND MATERIALS REPORTS

CAUTION: Prior to handling test materials, performing equipment setups, and/or conducting this method, testers are required to read "**SAFETY AND HEALTH**" in Section D of this method. It is the responsibility of the user of this method to consult and use appropriate safety and health practices and determine the applicability of regulatory limitations before any testing is performed.

A. INTRODUCTION

These reports describe the materials for the items in the District PS&E package that are proposed for use in the project, as well as recommendations concerning existing conditions, facilities and factors that may influence construction of the project.

B. GENERAL

If a Geotechnical Design Report and/or Materials Report is required, guidelines contained in this test method should be followed. The Division of Structural Foundations (DSF) is responsible for development, review, and approval of the Geotechnical Design Report. The District Materials Engineer (DME) or designee is responsible for development, review, and approval of the Materials Report. Aspects in both the Geotechnical Design Report and the Materials Report that address corrosion issues shall adhere to the "Corrosion Guidelines" developed by the Division of Materials Engineering and Testing Services (METS). Various Units within the Engineering Service Center shall provide technical support and review appropriate report sections.

C. REPORTS

1. Geotechnical Design Report

   Projects that include, but are not limited to, designs for cut slopes, embankments, earthwork, landslide remediation, Standard Plan retaining walls, tie-back walls, mechanically stabilized embankments, groundwater studies, sub-excavations, and any other studies completed in support of District PS&E packages involving geotechnical engineering and engineering geology will require preparation of a Geotechnical Design Report. Geotechnical Design Reports prepared by consultants shall be submitted to the DSF for review and approval. Geotechnical Design Reports shall conform to the "Geotechnical Design Report Guidelines" developed by DSF. Aspects of the Geotechnical Design Reports that address corrosion issues shall adhere to the "Corrosion Guidelines" and shall be submitted to METS for review and comment.

2. Materials Report

   Topics to be addressed in the Materials Report include the design of pavement structural sections, culvert material selections (new, replacements, and/or extensions), and projects involving minimal amounts of earthwork. All pavement structural section design studies shall conform to the "Guidelines for Pavement Structural Section Design Reports," developed by METS. Materials Reports prepared by consultants shall be submitted to the appropriate DME or designee for review and approval. Aspects of Materials Reports that address corrosion issues shall adhere to the "Corrosion Guidelines" and shall be submitted to METS for review and comment. Materials Reports that present pavement structural section design or other pavement improvements shall also be submitted for review and comment to both the METS, and the State and Local Project Development Program.

D. SAFETY AND HEALTH

Prior to handling, testing or disposing of any waste materials, Caltrans testers are required to read: Part A (Section 5.0), Part B (Sections 5.0, 6.0, and 10.0), and Part C (Section 1.0) of the Caltrans Laboratory Safety Manual. Users of this method do so that their own risk.

REFERENCES:

Caltrans Highway Design Manual,
Topic 111, Material Sites and Disposal Sites
Topic 113, Geotechnical Design Report
Topic 114, Materials Report
Topic 600, Design of the Pavement Structural Section
Topic 852, Design Service Life
California Tests 532 and 643
Corrosion Guidelines
Division of Materials Engineering and Testing Services
Engineering Service Center
Guidelines for Pavement Structural Section Design Reports
Division of Materials Engineering and Testing Services
Engineering Service Center
Geotechnical Design Report Guidelines
Division of Structural Foundations
Engineering Service Center

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